ARIZONA DEPARTMENT OF WATER RESOURCES

Operations Division 500 North 3rd Street Phoenix, Arizona 85004

*

7 1995

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WELL DRILLER REPORT

This report should be prepared by the driller in all detail and filed with the Department within 30 day following completion of the well.

			•						
1.	Owner Name:						Z		3032
	Auuress	Street		City	KENI E	· · · · · · · · · · · · · · · · · · ·	State	2	
				·				2	*
2.	Driller Name:	BOULES "	BROTHERS DR	ILLING CO					
	Address:	6527 W.	NORTHVIEW AV	E GLEN	SDALE .	Az		853	30/
		Street		City	,		State	Zi	
2	Location: 4	316	9 Am	ግ የ	1/	c . \	14	5.1	17 4763
٥.	Townsh	<u></u>	Range	Section	. ' 4 —	<u>3ω</u> 10-acre	"4 -	40-acre	
	10#1211	15	Kange	Secuoi	1	10-2616		40-4H ¢	100-401
4.	Well Registration	1 No. 55-	547611			(Red	juired)		
						`	,		
5.	Permit No					_ (If iss	eed)		
			DESCRIP	TION OF	WELL.				
			11100141	11011 01	.,				
6.	Total depth of he	ole	740		ft.				
	Type of casing							_	
8.	Diameter and len	gth of casing	5% in from	<u>– 7.8 to 59</u>	12.5 . 4	11/2 in	from_	592.5	to 9 28
9.	Method of sealing	g at reduction	points Chann	a muc Su	. ملد				
10.	Perforated from_	to		·	to		from_		to
11.	Size of cuts		Nun	ber of cuts	per foot				
12.	If screen was ins	talled: Lengtl	59.5	ft. Diam	· 49	2	in. T	ype Pvc	sch.80
	Method of constr						_		
		(drille	d, dug, driven, bored	-					
14.	Date started					<i>199</i> 5		···	
		Moath		ay		Year			
15.	Date completed_			<u></u>		<u> 1995</u>			
1.6	Daneh se mesan	Month		ay		Year Aonaine	1T	on rental	
10.	Depth to water					TYOWITE	MCH"	80 8tate/	
17	Describe point fr	om which da	oth massumements	mara muda	and aire	a can-la	وأد أوي	vation if a	vailable
17.		P of Car		were made,	THE SIVE	C 3C4-1C	VCI GIO	vanon n a	vanatio
		W CH	una			·····			
18	If flowing well, s	tate method (of flow moulation						
10.	n nowing went, s	medion (n Itom teguradon	*				-	
ŧΟ	Remarks:			_					··
	remarks.					DO NOT	WRITE	IN THIS SP	ACE
				ł		0	FFICE I	RECORD	
				[,	Registratio	n Na 3	476	1) D/4	1)28 BCC_
		_	-	i	File Neg A1			7 7 19	
					Received	1 727 1 20	<u>.</u>	_Ву_	
DWR.	.55-55-10/94 (Rev.)				Entered			Ву	

LOG OF WELL

Indicate depth at which water was first encountered, and the depth and thickness of water bearing beds. If we is artesian, indicate depth at which encountered, and depth to which it rose in well.

From (feet)	To (feet)	Description of formation material		
0	170	CORESE UNCONSOLIDATED ALLUVIUM		
170	780	GILA CONGLOUDDATE: SAND AND GRAVEL WITH		
		REDDISH BROWN CLAY		
780	940	INHITETAIL CONGLOMERATE; COARSE, WELL		
·	·	CEMENTED COTE KSTAR PLAGICLASE, BIOTITE		
	······································			
····		<u> </u>		
		·		
]			
				
				

I hereby certify that this we contained are true to the b	ell was drilled by me(or under my supervision), and that each and all statements herein est of my knowledge and belief. Driller Name: Toylor Logs, Afthird August
	Street 10 Northwest Ave Street 175/ City State Zip Phone No.

ARIZONA DEPARTMENT OF WATER RESOURCES GROUNDWATER MANAGEMENT SUPPORT SECTION

500 North Third Street, Phoenix, Arizona 85004-3903 Phone (602) 417-2470 Fax (602) 417-2422

REQUEST FORM TO CHANGE WELL INFORMATION OWNERSHIP * DRILLER * VARIANCE

Please complete the appropriate section of this request form and return to the above address with applicable fee. NOTE: A.R.S. § 45-593.C requires that the Department be notified of change of well ownership and that the new owner is required to keep the Department's Well Registration records current and accurate. Well data and ownership changes must be submitted within thirty days after changes take place.

<u>SAVE THIS FORM</u> TO REPORT FUTURE CHANGES IN OWNERSHIP, <u>CHANGES IN ADDRESS</u>, OR CHANGE IN WELL DATA SUCH AS PUMP CAPACITY, CORRECTION OF LEGAL DESCRIPTION, CHANGE OF WELL DRILLER AND AMENDING INFORMATION PREVIOUSLY FILED.

l.	CHANGE OF WELL INFORMATION: (NO FEE R	(EQUIRED)						
	NOTE: If the location of the proposed well changes after drilling authority has been issued, attach a \$10.00 reissue for each well.							
	WELL REGISTRATION NO. 55- 54761	FILE NO:) (U-9) 28 BC					
	If known, I/We request the following well information i	be changed:	· <u>-</u> .					
	NAME CHANGE O	DNLY						
	Date Signature of Current Well	Owner						
2.	STATEMENT OF CHANGE OF WELL OWNERSH	TATEMENT OF CHANGE OF WELL OWNERSHIP: (\$10.00 FEE REQUIRED)						
	NOTE: If this change consists of more than one well a each well requires a separate fee of \$10.00.	nd the names are common; a	ttach a \$10,00 fee. Otherwise					
	I,, state that I	am the Previous/New Own	er of the well described below					
	10 Acre 40 Acre 160 Acre	Township	Range					
	Well Registration No. 55- See attached	File No.:	(if known)					
	Magma Copper Company PRINT Previous Owner's Name	BHP Copper Inc. PRINT New Owner's Name 7400 North Oracle Road, Suite 200 Mailing Address						
	7400 North Oracle Road, Suite 200 Mailing Address							
	Tucson Arizona 85704 City State Zip	Tucson City	Arizona 85704 State Zip					
	520-575-5600 Telephone Number	520-575-5600 Telephone Number	·······					
	Signature of Previous/New Well Owner Ry		Date v 4-23-20					

Title: Land Manager

ENTERED TOO 26 MAG MAG

ARIZONA DEPARTMENT OF WATER RESOURCES GROUNDWATER MANAGEMENT SUPPORT SECTION

500 North Third Street, Phoenix, Arizona 85004-3903 Phone (602) 417-2470 Fax (602) 417-2422

This request must be received by this Department and the Drill Card issued to the new drilling firm prior to

3. <u>REQUEST TO CHANGE WELL DRILLER</u> \$10.00 FEE REQUIRED FOR EACH WELL

Typed or Printed Name of Well Owner Signature of Well Owner Date

ADWR License Number

R.O.C. License Category

The fee charge for well ownership and reissue of drill card is authorized by R12-15-151, effective June 30, 1994.

4. REISSUE OF DRILLING AUTHORITY FOR VARIANCE REQUEST: (\$10.00 EACH WELL)

<u>NOTE</u>: If extraordinary or unusual conditions exist, after the initial drilling authority has been issued, the well owner or well driller may request a variance from the provisions of R12-15-811.

WELL REGISTRATION NO. 55-	FILE NO:

I/WE REQUEST THE FOLLOWING WELL DRILLING AUTHORITY BE REISSUED PER THE ATTACHED VARIANCE REQUEST:

Signature of Well Owner/Well Driller	Date	· · ·	

ADWR License Number

R.O.C. License Category

NAME: MAGM	COPPER	CO	GRID: J 09 PACH 5,08
REPORT NO: VL9030		AHIZONA DEPARTMENT OF MAYER RESOURCES MELL PEMORT OPERATIONS DIVISION WARA WELLS SEQUENCED BY ALPHABETICAL DROPE MARK	•
REPORT DATE: 1/31/9			
FJĽ∷∹¼™©	2 T 3 0 0 4 4 4 5 0 N 8	S Q T R OS MELL SEPTH AI WATER PURP SRIVE C 1 2 3 REG NO SEPTH CASES SA CEVEL (6PM) SATS T	ORL WS 0.0 LIS WIR AH 0.2 NO. USE TE G.T 0
MAGMA COPPER CO 7400 M ORACLE RO 162 DUCSON AX	D ÷-0 9.	26 C E A S5-547810 1400 1379 04 C164 7/27/1993	314 M US XN
MASMA COPPER CU 14503 E HANY HAY	n 4.0 %.	33 S3+548246	028 N GS IN
FLORENCE AZ NASMA CUPPER CO	65232 D 4,0 9,	28 55-548247	028 W 08 EN
4605 g HUNT YMY LORPWCE AZ		. own Br. 55=570473 0190 0190 01 6/25/1993	269 T 07 X N
ASMA COPPER CO COL XOE C AMI		54 3 9 C 22-22-412 0112 0110	
AGMA COPPER CO 400 N URACLE RO 162 UCSON A4		Z8 C B A S5-547611 D770 0740 06 0164 8/11/1995	314 H J8 X N
UCSÓN A4 AGMA ÇOPPER CO 400 N CRACLE RD 162	D 4,C 9.	: 28 C B A 55-547612 1440 1413 04 C164 8/01/1995	א 314 א 314 X н
DOBON AZ AGMA CORRER CO	85704	: 26 C B C 55-547813 Q430 0414 05 0157 00014 6/06/1995	314 M US X X
ADO N GRAÇLE RD 162 UZBON AZ MONA MONASE AR) 28 D C C 55-\$47611 0940 C928 D5 0435 00014 14/06/1995	020 M D\$ X X
MGMA (CO ^{SS} ER CO 1400 N GRACLE RD UCSON AZ	857C4	700th 4th - 4007	C28 M U6 X X
MAGMA COPPER CO 400 N ORACLE RD UCSON AZ) 28 H C C \$5-547612 1115 1090 05 0149 00010 4/12/1995	CES // C4 //
OUSOM MAGMA COMPERICÒ MAGO NICANCLE RD) 28 B C C 55-547613 1576 1570 05 0153 00014 372371995	Q28 H U8 X X
) 55 B g C 55-947614 C370 9338 05 0090 BCC14 5/23/1995	214 M 00 X X

5 X 64 10-5

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W\$ BC W\$

MA BC MI.

MA (30) ME)

MA(90) MI/

MAS 60% M&A

MAG BOX MIA MONITOR/PIEZOMETER WELL FILING FEE \$10.00

ARIZONA DEPARTMENT OF WATER RESOURCES OPERATIONS DIVISION 500 NORTH THIRD STREET

MONITOR/RIEZOMETER WE

PHOENIX, ARIZONA 85004. (602) 417-2470

M9-58

NOTICE OF INTENTION TO DRILL MONITOR/PIEZOMETER WELL Section § 45-596, Arizona Revised Statutes provide: Prior to drilling a monitor or piezometer well/a Notice of

1.	WELL LOCATION:	7. Consulting Firm: BC	
	4 N/S) 9 PW 28	Contact Person: Steve Mellon	February 1995 Month Day Year
	Township Range Section	Phone: 602-222-4445	11. Period well will remain in
	SW 1/4 SW 1/4 NW 1/4 10 ACRE 40 ACRE 160 ACRE	8. Purpose of well drilled pursuant to this notice	use3_ Months(Years)
2.	Position location of the well on the land:	MonitorX	12. For monitoring wells, is pump equipment to be installed?
	Latitude 33 0 3 15 "	Piezometer	Yes NoX
	Longitude [[] 0 26 12 "	 If for deepening or modifying, Well Registration Number 	(a) If yes, design pump capacity
3.	County: Pinal	56	(b) What use will be made of the water
4.	Owner of the land of wellsite: Macma Copper Company		13. Drilling firm:
	Name 7400 N. Oracle Rd., Ste. 200 Address	DO NOT WRITE IN THIS SPACE OFFICE RECORD	Boyles Brothers Drilling C Name 6527 W. Northview Ave.
	Tucson AZ 85704 City State Zip	File No. D (4-9) 2 8 B C C	Address Glendale AZ 85301
		Filed 1-24-95 By A	City State Zip
5.	Name Address	Input ENTEREDFEBY - 6 1595 DUPLICATE	DWR License No. 28 - Class A-04 076-386-002 ROC License classification
	City State Zip	Mailed <u>1-31-95</u> By <u>A</u>	- 14. Is the proposed wellsite within 100 fee of a septic tank system, sewage
6.	Owner of well: Magma Copper Company Name	Registration 55. 547611 AMA/INA Pinal	disposal area, landfill, hazardous wast facility, storage area of hazardous material or petroleum storage areas
	7400 N. Oracle Rd Ste. 162 Address	? w/s <u>28</u> s/в <u>//</u>	and tanks? Yes NoX
	Tucson AZ 85704 City State Zip	<u> </u>	_
16.	Proposed method of shandonment of well after	r project is completed: According to Regu	flation R-12-15-816
17.	Is this well to monitor existing contamination?	NO Potential contamination	. Please explain:
1. 2. 3. 4.	For specific instructions, limitations and cond. Must be signed by land owner or lesses.	shall determine that all information required on for	

I state that Notice is filed in compliance with Section § 45-596 and is complete and correct to the best of my knowledge and belief and that I

[] Lesses of wellsite

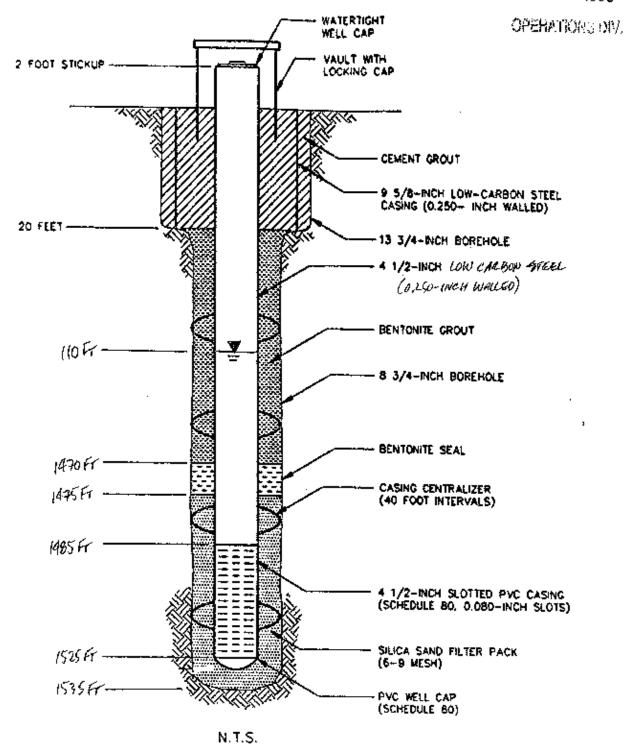
DWR 55-44 P/02 (Rev 1

Typed or Printed Name

understand the conditions set forth on the reverse side of this form.

18.	3. If construction plans have been coordinated with Arizona Depa agency contact?	artment of Environmental Quality, wh	o is the
	If construction plans have been coordinated with Arizona Department?	artment of Water Resources, who is the	agency
19.	a) Drilling method (mud rotary, hollow-stem auger, etc.)		
	b) Borehole diameters: (3 ³ / ₄ inches from 6		
	934 inches from 22	Teet to 1255 _ Teet.	
	c) Casing materials (PVC, steel, hollow-stem auger, etc.)	5 6 5ta 20	*
	material Heel diameter 95/8 inches material Heel diameter 4 inches		feet
			_ feet
	 d) Method of sealing at reductions e) Annular seal materials (cement, grout, etc.); method of place 	-	
	material <u>Cement Gaut</u> method <u>Hemic</u> from _		C +
	material <u>Bentonite Good</u> method <u>Wernie</u> from _		_ feet
		teet to	_ feet
	f) Filter packs (state material): material Coloredo Silica Sand from	1475 feet to 1535	
	material Constitution Inch.	feet to	_ feet
		Teet to	feet
	g) Perforations or screen specifications:	100 000 000	
	type 080 inch slot PVC Schol 80 from	1485 feet to 1525	feet
	type from _	feet to	feet
	 h) Method of well development (bail, air lift, surge) <u>Air L</u> i) Will surface or conductor casing extend above grade: 		
20.	 Include detailed construction diagram showing expected water vault, if specified. 	depth in feet below land surface, and	details o
	CONDITIONS		
L V	 Construction and abandonment standards for all wells shall be R12-15-816. 	in accordance with A.A.C. R12-15-811	and
11.	II. Drilling of the well shall be completed within one (1) year after	the date of Notice.	
Ш.	 A Well Driller Report, is required within 30 days of completion to be filed with the Department within 30 days after installation 		
IV.	V. Pump equipment <u>may not</u> be installed on a well drilled for pieze pumped, pumping is limited to the maximum amount required <u>may exceed 35 gallons per minute and an annual volume of 10</u> :	for monitor purposes, but in no case	
V.	V. A.A.C. Rule R12-15-811.H.2, requires that: "A monitor well sha cover or at the top of the steel casing. Identification informatio	all be identified as such on the vault in will include well registration numbe	r. "
VI.	7. Special construction standards required pursuant to A.A.C. Rul	le R12-15-821:	

JAN 2 4 1995



NOTES:

- 1. PVC = POLYVINYL CHLORIDE
- 2. CASING DIMENSIONS ARE OUTSIDE DIAMETER

WELL DESIGN

ARIZONA DEPARTMENT OF WATER RESOURCES

500 N 3RD ST., PHOBNIX, AZ. 85004 Telephone (602) 417-2470 Fax (602) 417-2401

January 30, 1995

MAGMA COPPER CO. 7400 N. ORACLE RD. S162 TUCSON, AZ. 85704

PIFE SYMINGTON
Governor

RITA P. PEARSON Director

RE: Registration No. 55-547611 THRU 55-547617

File No. VARIOUS

Dear Well Owner:

Enclosed for your records is an annotated copy of the Notice of Intention to Drill a well. This is returned to you as evidence of compliance with A.R.S. §45-596. A drilling card has been mailed to your designated driller. Prior to drilling he must have it in his possession.

Since this well is being drilled as a Monitor well, or for Cathodic Protection, Grounding, Geotechnical or Piezometer purposes, our standard driller report form is also being furnished to the driller. He is required to complete it and return it to the Department within 30 days after the completion of the well. A Completion Report form is being furnished for monitor wells where pump installation is authorized. This must be completed within thirty days of installation as required by A.R.S. §45-600.

A Change of Well Information form is enclosed for your future use. If you deem it necessary to change the location of the proposed well, please notify the Department on the enclosed form. A properly amended Drilling Card will then be issued and must be in possession of the driller before drilling begins. During the drilling of a new well, if it is determined that it must be abandoned, then a Well Abandonment Completion Report must be submitted per R12-15-816.F.

Per A.R.S. §45-593, the person to whom a well is registered shall notify this Department of a change of ownership of the well and/or information pertaining to the physical characteristics of the well, in order to keep the well registration file current and accurate.

For additional information, you may contact the Operations Division at (602) 542-1581.

Sincerely,

Ellen Kane

Groundwater Permit Specialist

RECEIPT

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17386

ERCET & CRIDWELL 1830 . CHTTERL RAE, SICO SLOW IV, AZ. 15012

STATE OF ARIZONA
DEPARTMENT OF WATER RESOURCES
OPERATIONS DIVISION
15 SOUTH 15TH AVENUE
PHOENIX, ARIZONA 85007
(602) 542-1581

ENTRY CODE _____55

FILE NO.	VARIOUS	547613	THRU	547617	
	ITEM DE		RATE	AMOUNT	
Pitaro sp	T POR OI TO DR	ith werds		\$10,00	870.00
					
		JAN 3	0 1995		
		Pa	HOY		
:	1/30/ <u>05/ek</u> . ec	#7520	į		\$70.on
CHECK NO	F	FEE ACCOUNT NO		_ TOTAL \$	
CHIT NO	F	RECEIVED BY		DATE	

ARIZONA DEPARTIVIENT OF WATER RESOURCES

OPERATIONS DIVISION

500 North Third Street Phoenix, Arlzona 85004-3903 Phone (602) 417-2470

DUPLICATE

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO. 56-547611 THRU 55-547613

AUTHORIZED DRILLER: BOYLES BROS. DRILLING CO.

LICENSE NO. 28

NOTICE OF INTENTION TO DRILL A MONITOR WELL HAS BEEN FILED WITH THE DEPARTMENT BY:

Owner of Well(s)
MAGMA COPPER CO.

7400 N. ORACLE RD. \$162

TUCSON

AZ 85704

The well(s) is/are to be located in:

SW 1/4 SW 1/4 NW 1/4

Section 28

Township 4.0 SOUTH

Range

9.0 EAST

10 abre 40 acre 160 acre

NUMBER OF WELLS IN PROJECT:

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON JAN 23RD, 1996



THE DRILLER SHALL FILE A LOG OF THE WELL WITHIN 30 DAYS OF COMPLETION OF DRILLING.

CHIEF, OPERATIONS DIVISION

ARIZONA DEPARTMENT OF WATER RESOURCES

15 South 15th Avenue Phoenix, Arizona 85007

Registration No	55-547611

File No. __ D(4-9) 28 6cc

COMPLETION REPORT

- Per A.R.S. § 45-600, the Completion Report is to be filed with the Department within 30 days after installation of pump equipment by the registered well owner.
- Drawdown of the water level for a non-flowing well should be measured in feet after not less than 4 hours of continuous
 operation and while still in operation and for a flowing well the shut-in pressure should be measured in feet above the land or in
 pounds per square inch at the land surface.
- 3. The static groundwater level should be measured in feet from the land surface immediately prior to the well capacity test.
- 4. The tested pumping capacity of the well in gallons per minute for a non-flowing well should be determined by measuring the discharge of the pump after continuous operation for at least 4 hours and for a flowing well by measuring the natural flow at the land surface.

land surface.				
LOCATION OF THE	WELL:			
4 N/S	9 (E/W 28 Range Section	Sud 1/4 10-acre	<u>5ω</u> 1/4 40-acre	Nω 1/4 160-acre
EQUIPMENT INSTALLE	D:			
Kind of pump	GRUNDECS SUBMERSIEL Turbine, centrifugal, etc.	e Turbinë		
Kind of powerEl	ELECTRIC ectric, natural gas, gasoline, etc.	H.P. Rating of I	Motor 5.0	
Pumping Capacity	5-14 GPM Gallons per minute	Date pump install	ed: <u>Айбист</u>	/995
WELL TEST:				
Test pumping capacity	Gallons per minute	Date Well Te	ested: <u>8/24</u>	45
Method of Discharge Measur	rement FLow A	IETER		
	Weir, orifice, currer	nt meter, etc.		
Static Groundwater Level	197.0	ft. Drawdown	12:12	ft _.
Total Pumping Lift	159.72	ft. Drawdown	lowing Well)	lbs.
I HEREBY CERTIFY that the	above statements are true to the best of		_	1 1995
Sep714	, 19 91		MA COPPER CO Owner's Name	MPANY:
Date	DEGE DEP 20	14605 E	of Well Owner or A	
DWR-55-56-7/91 (Rev.)	RECORD!	Florenc	e AZ State	85232 Zip